100W Single Output Switching Power Supply

GS-100...

Feature

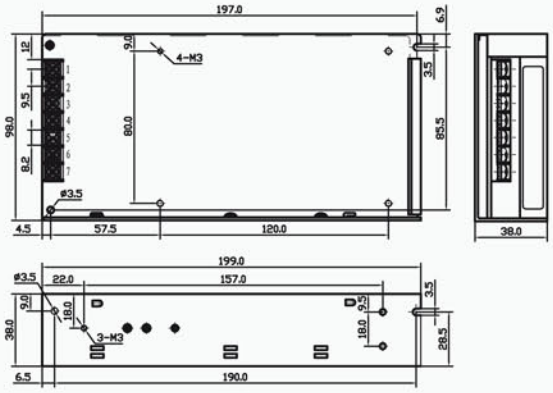
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 25KHz
- Protections: Short circuit / Over load
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 199*98*38mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
- Ripple & noise are measurd at 20MHz of bandwidthby using a12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance:includes set up tolerance, line regulation and load regulation

Model		GS-100-3	GS-100-5	GS-100-7.5	GS-100-12	GS-100-15	GS-100-18	GS-100-24	GS-100-27	GS-100-48
Output	DC Voltage	33V	5V	7.5V	12V	15V	18V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	20A	20A	13.6A	8.5A	6.7A	5.6A	4.5A	3.7	2A
	Current Range	0-20A	0-20A	0-13.6A	0-8.5A	0-6.7A	0-5.6A	0-4.5A	0-3.7A	0-2A
	Rated Power	6W	100W	102W	102W	100.5W	100.8W	108W	99.9W	96W
	Ripple & Noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	DC Voltage adi. Range	-5%+10%	-5%+10%	±10%	±10%	±10%	±10%	±10%	-4%±18%	±10%
	Setup,Rise,Hold Time	200ms,80ms,20ms at full load								
Input	Voltage Range	85~132 VAC/180~264VAC 47~63 Hz; selected by switch 255~370VDC								
	AC Current	2.4A/115 V 1.2A/ 230 V								
	Efficiency	70%	78%	80%	81%	81%	82%	84%	84%	84%
	Inrush Current	Cold start 30A/115V 60A/230V								
	Leakage Current	1 mA/240VAC								
Protection	Over Load	135%~165%								
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed.								
Environment	Working Temp& Humidity	-10°C~+60°C; 20%~90 %RH								
	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH								
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC								
Standards	Safety Standard	Design refer to UL1012								
	EMC Standard	Design refer to FCC Part 15 J Conduction Class B								
Others	Weight	0.62Kg								
	Packing	30pcs/18Kg/1.22CUFT								

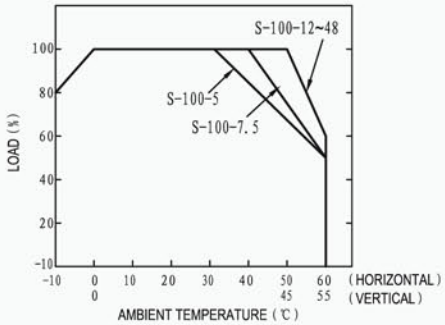
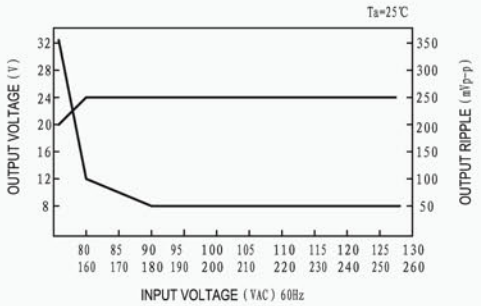
Outline and dimension



Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4、5	DC OUTPUT -V
2	AC/N	6、7	DC OUTPUT +V
3	FG ⏚		

Derating Curve



Static Characteristics(24V)